

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ICUMM.127C1	APPLICATION NO. <del>Unknown</del> 10/636,163
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Thomas F. Fangrow, Jr.	
		FILING DATE Herewith	GROUP <del>Unknown</del> 3748

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
B5	1.	Des. 321,250	10/29/91	Jepson et al.	—	—	—
	2.	Des. 321,251	10/29/91	Jepson et al.			
	3.	1,578,517	3/30/28	G.N. Hein			
	4.	2,210,098	08/06/40	E.A. Ravenscroft			
	5.	2,289,677	7/14/42	H.N. Perelson			
	6.	2,847,995	8/19/58	J.Q. Adams			
	7.	2,999,499	09/12/61	R.H. Willet			
	8.	3,134,380	5/26/64	Thomas A. Armao			
	9.	3,135,261	6/2/64	Alfred J. Carroll			
	10.	3,354,881	11/28/67	Herman S. Bloch			
	11.	3,502,087	03/24/70	W. F. Muller			
	12.	3,630,199	12/28/71	Gangarosa			
	13.	3,648,684	3/14/72	Barnwell et al.			
	14.	3,859,602	05/02/72	Cloyd			
	15.	3,788,519	01/29/74	Mengel			
	16.	3,831,629	08/27/74	Mackal et al.			
	17.	3,852,385	12/3/74	Huggins			
	18.	3,861,388	01/21/75	Vaughn			
	19.	3,974,832	8/17/76	Kruck			
	20.	3,976,063	8/24/76	Henneman et al.			
	21.	3,976,073	8/24/76	Quick et al.			
	22.	3,986,508	10/19/76	Barrington			
	23.	3,993,063	11/23/76	Larrabee			
	24.	3,994,293	11/30/76	Ferro			
	25.	4,005,710	02/01/77	Zeddies, et al.			
✓	26.	4,019,512	4/26/77	Tenczar	✓	✓	✓

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BS	27.	4,022,205	05/10/77	Tenczar			
	28.	4,040,240	08/09/77	Speer			
	29.	4,076,285	2/28/78	Martinez			
	30.	4,079,738	3/21/78	Dunn et al.			
	31.	4,080,965	3/28/78	Phillips			
	32.	4,121,585	10/24/78	Becker, Jr.			
	33.	4,128,098	12/5/78	Bloom et al.			
	34.	4,143,853	03/79	Abramson			
	35.	4,149,535	04/17/79	Volder			
	36.	4,161,949	7/24/79	Thanawalla			
	37.	4,187,848	2/12/80	Lolachi et al.			
	38.	4,191,183	03/04/80	Mendelson			
	39.	4,214,779	7/29/80	Losell			
	40.	4,219,912	9/2/80	Adams			
	41.	4,243,034	01/06/81	Brandt			
	42.	4,257,416	03/24/81	Prager			
	43.	4,294,249	10/13/81	Sheehan et al.			
	44.	4,296,949	10/27/81	Muettarties et al.			
	45.	4,306,705	12/22/81	Svensson			
	46.	4,328,802	5/11/82	Curley et al.			
	47.	4,329,987	5/18/82	Rogers et al.			
	48.	4,334,551	6/15/82	Pfister			
	49.	4,338,933	7/13/82	Bayard et al.			
	50.	4,362,158	12/7/82	Feller, Jr. et al.			
	51.	4,392,851	07/12/83	Elias			
	52.	4,405,163	09/20/83	Voges, et al.			
✓	53.	4,405,312	09/20/83	Gross, et al.			

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BT	54.	4,411,662	10/25/83	Pearson			
	55.	4,417,890	11/29/83	Dennehey et al.			
	56.	4,432,759	2/21/84	Gross et al.			
	57.	4,432,765	2/21/84	Oscarsson			
	58.	4,439,188	3/27/84	Dennehey et al.			
	59.	4,439,193	3/27/84	Larkin			
	60.	4,457,749	7/3/84	Bellotti et al.			
	61.	4,508,367	4/2/85	Oreopoulos et al.			
	62.	4,511,359	4/16/85	Vaillancourt			
	63.	4,512,766	4/23/85	Vaillancourt			
	64.	4,564,054	1/14/86	Gustavsson			
	65.	4,592,356	6/3/86	Gutierrez			
	66.	4,607,888	08/26/86	Harvey, et al.			
	67.	4,610,489	9/9/86	Wolff-Mooij			
	68.	4,617,012	10/14/86	Vaillancourt			
	69.	4,623,088	11/18/86	Brown et al.			
	70.	4,645,494	2/24/87	Lee et al.			
	71.	4,673,400	6/16/87	Martin			
	72.	4,706,487	11/17/87	Bandou et al.			
	73.	4,725,287	2/16/88	Vaillancourt			
	74.	4,752,202	6/21/88	Lopez et al.			
	75.	4,759,756	07/26/88	Forman, et al.			
	76.	4,775,369	10/4/88	Schwartz			
	77.	4,781,702	11/1/88	Hertli			
	78.	4,804,015	02/14/89	Albinsson			
	79.	4,810,241	3/7/89	Rogers			
✓	80.	4,813,836	03/21/89	Raulerson			

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BS	81.	4,832,214	5/23/89	Schrader et al.			
	82.	4,834,664	5/30/89	Lin			
	83.	4,834,718	05/30/89	Ogle, II			
	84.	4,874,377	10/17/89	Newgard et al.			
	85.	4,878,897	11/7/89	Katzin			
	86.	4,928,212	5/22/90	Benavides			
	87.	4,943,896	7/24/90	Johnson			
	88.	4,946,445	08/07/90	Lynn			
	89.	4,984,855	10/23/90	Todd, et al.			
	90.	4,969,883	11/13/90	Gilbert et al.			
	91.	4,998,713	3/12/91	Vaillancourt			
	92.	4,998,927	03/12/91	Vaillancourt			
	93.	5,009,490	4/23/91	Kuono et al.			
	94.	5,018,532	5/28/91	Ethridge, III			
	95.	5,046,456	9/10/91	Heyman et al.			
	96.	5,084,416	11/12/91	Newgard			
	97.	5,065,783	11/19/91	Ogle, II			
	98.	5,100,394	03/31/92	Dudar et al.			
	99.	5,122,123	06/16/92	Vaillancourt			
	100.	5,135,489	08/04/92	Jepson et al.			
	101.	5,154,703	10/13/92	Bonaldo			
	102.	5,158,554	10/27/92	Jepson et al.			
	103.	5,171,234	12/15/92	Jepson et al.			
	104.	5,188,620	2/23/93	Jepson et al.			
	105.	5,199,947	04/06/93	Lopez, et al.			
	106.	5,201,717	04/13/93	Wyatt et al.			
✓	107.	5,203,775	04/20/93	Frank et al.			

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BS	108.	5,211,638	5/18/93	Dudar et al.			
	109.	5,242,432	09/07/93	DeFrank			
	110.	5,256,155	10/26/93	Yerlikaya et al.			
	111.	5,269,771	12/14/93	Thomas et al.			
	112.	5,273,533	12/28/93	Bonaldo			
	113.	5,290,254	3/1/94	Vaillancourt			
	114.	5,344,414	9/6/94	Lopez et al.			
	115.	5,401,245	3/28/95	Haining			
	116.	5,411,499	5/2/95	Dudar et al.			
	117.	5,470,319	11/28/95	Mayer			
	118.	5,487,731	1/30/96	Denton			
	119.	5,533,708	07/96	Atkinson et al.			
	120.	5,549,566	8/27/96	Elias et al.			
	121.	5,549,851	08/96	Lynn			
	122.	5,556,388	9/17/96	Johlin, Jr.			
	123.	5,676,346	10/14/97	Leinsing			
	124.	5,685,866	11/11/97	Lopez			
	125.	5,690,612	11/25/97	Lopez et al.			
	126.	5,694,686	12/9/97	Lopez			
	127.	5,695,466	12/9/97	Lopez et al.			
	128.	5,699,821	12/23/97	Paradis			
	129.	5,700,248	12/97	Lopez			
	130.	5,738,663	4/14/98	Lopez			
	131.	5,797,897	08/98	Jepson et al.			
	132.	5,700,248	12/23/97	Lopez			
	133.	5,873,862	02/23/99	Lopez			
	134.	5,957,898	09/99	Jepson et al.			

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PST	135.	5,967,490	10/19/90	Pike			
	136.	6,019,748	02/01/00	Lopez			
	137.	6,113,088	09/05/00	Ryan			
	138.	6,132,404	10/17/00	Lopez			
	139.	6,171,287	01/01	Lynn et al.			
	140.	6,245,048	08/12/01	Fangrow, Jr. et al.			
	141.	6,325,782	12/04/01	Lopez			
	142.	6,428,520	08/06/02	Lopez et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
PST	143.	1,105,959	7/28/81	Canada				
	144.	0 114 677	8/1/84	Europe				
	145.	0 237 321	3/10/87	Europe				
	146.	0 240 590	4/7/87	Europe				
	147.	0 309 771	3/9/88	Europe				
	148.	0 367 549	10/31/89	Europe				
	149.	0 399 119	7/27/89	Europe				
	150.	0 438 909	12/21/90	Europe				
	151.	0 446 463	12/18/90	Europe				
	152.	84 25 197.2	10/31/85	Germany				
	153.	855 319	9/11/52	Germany				
	154.	DE 37 40 269 A1	08/01/89	Germany				
	155.	GB 2 034 185 A	08/04/80	Sweden				
	156.	1,435,244	04/07/88	Japan				
	157.	2 439 022	05/16/80	France				

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							YES	NO
BS	158.	87-3257	04/18/90	Korea				
	159.	310805	09/3/01	Norway				
	160.	2154462	08/26/95	Russian				
	161.	WO 86/01712	03/27/86	PCT				
	162.	WO 86/03416	08/19/86	PCT				
	163.	WO 93/11828	06/24/93	PCT				
	164.	WO 97/21463	08/19/97	PCT				
	165.	WO 97/21464	06/19/97	PCT				
	166.	WO 98/26835	08/25/98	PCT				
	167.	WO 99/58186	11/18/99	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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